

Figure 1

2-D Pooling of Transcription Factor Binding Sites (8 X 8)

Pool#

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∞	7	6	(J)	4	ယ	2	
SP20+6	Ш.	USB	PR2	ROL	ERE	900	Em1a
MSA	E1RE	USC	CE1	PF1	PRbox	GH3D1	ABRE1
DRE1	CA	USD	H-box1	AT-com	нвр-1а	GH3D3	ABREa
DRE2	napA	DR5	H-box2	AG	A	P3	P-box
CGF1	HaG3.75	PCF	Lox1	АР3	Bz1	GT-1	Z2Z3
ltp1D1	НаG3.75 НаG3.111	PAL1	PR-2d	TGAC	CHS	TCA	As-2
ENBP1	P-box2	myb26	ROL6	CAGT	BoxII	C/DRE	As-1
MRE	TGAC2	GARE	USA	DOF	GT-2	HSE	Ocs

Strong Binding Activities in Maize Nuclear Extracts

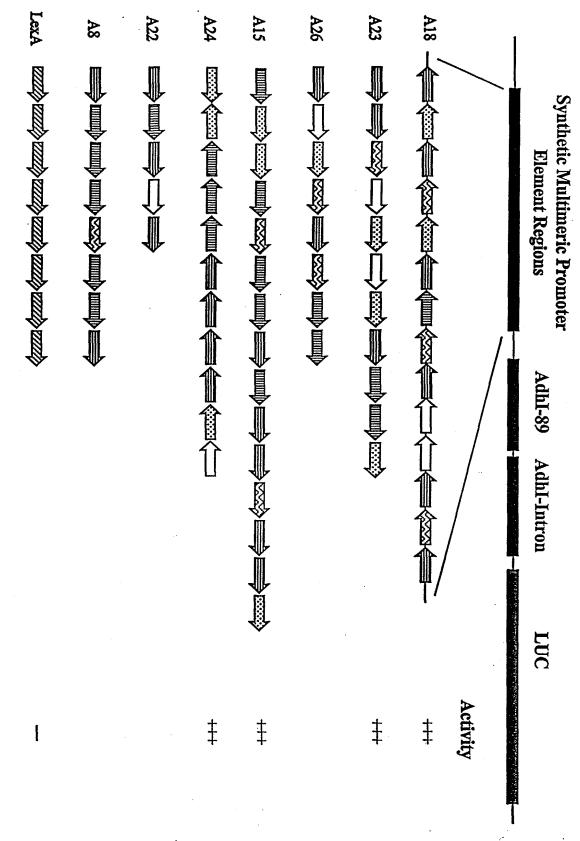
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}	Em1a	ABRE1	ABREa	P-box	Z2Z3	As-2	As-1	S30
2	GCC	GH3D1	GH3D3	P3	GT-1	TCA	C/DRE	HSE
ယ	ERE	PRbox	HBP-1a	A1	Bz1	снѕ	Boxll	GT-2
4	ROL	PF1	AT-com	AG	AP3	TGAC	CAGT	DOF
O I	PR2	CE1	H-box1	H-box2	Lox1	PR-2d	ROL6	USA
6	USB	USC	USD	DR5	PCF	PAL1	myb26	GARE
7	E8	E1RE	°CA	napA	HaG3.75	HaG3.111	P-box2	TGAC2
∞	SP20+6	MSA	DRE1	DRE2	CGF1	ltp1D1	ENBP1	MRE

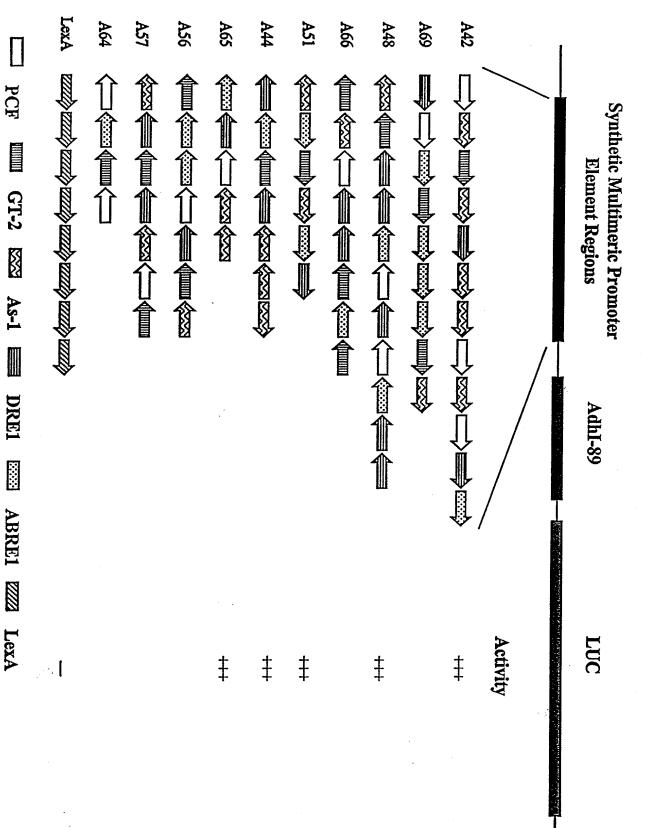
Transient Assay for Multimers of Transcription Factor Binding Sites

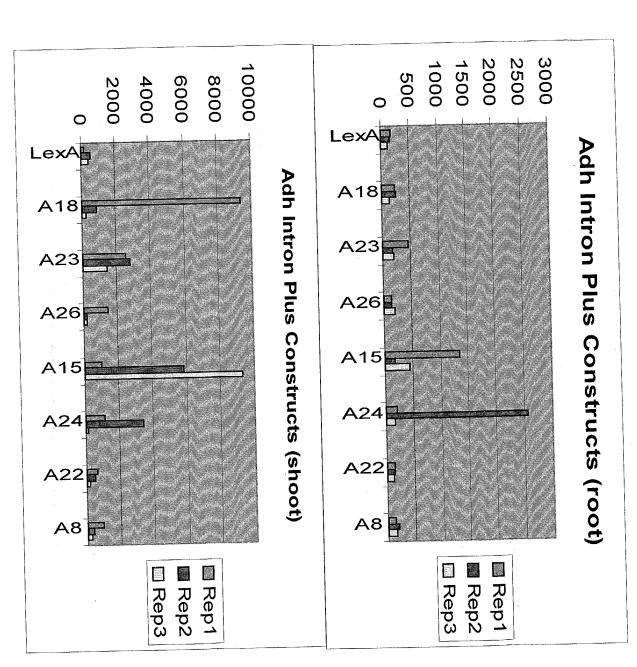


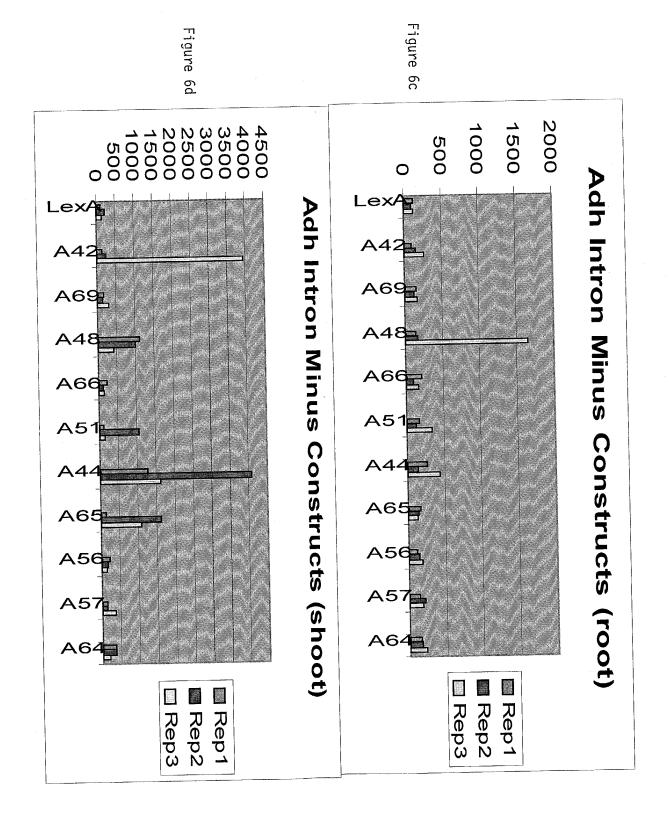
PCF GT-2 SSS As-1 DRE1

ABRE1 ZZZ LexA

Transient Assay for Multimers of Transcription Factor Binding Sites







A15 (PHP14147)

413bp

GT-2		ABRE1
TAGGTTAATTTATTGGGCGG	TAATTATAGCTTCGAGAAGAA	CCGAGACGTGGCGGGCTAG
ABRE1	G	FT-2
CTTCGAGAAGAACCGAGACG	TGGCGGGCTAGCTAGGTTAAT	TATTGGCGGGTAATTATAG
AS-1	<u>-</u>	GT-2
CTCCACTGACGTAAGGGATG	SACGCACAATTAGCTAGGTTAA	TTATTGGCGATAATTATAG
GT-2	DRE1	
CTAGGTTAATTATTGGCGGT	TAATTA <u>TAGC</u> ATATCATACCGA	CATCAGTTTAGCTAGGTTA
GT-2	DRE1	DRE1
ATTATTGGCGGTAATTATAG	CATATCATACCGACATCAGTT	TAGCATATCATACCGACAT
A	AS-1	DRE1
CAGTTTAGCTCCACTGACGT	CAAGGGATGACGCACAAT <u>TAG</u> C	CATATCATACCGACATCAGT
DRE1	ABRE1	•
TTT ACCATATICATACCCACAT	$^{\circ}$ CAGTTTAGCTTCGAGAAGAAC	CCACACCTCCCC

A18 (PHP14148) 392bp

DRE1	i	ABRE1
GCTAAACTGATGTCG(GTATGATATGCTAGCCCGCCACG'	TCTCGGTTCTTCTCGAAGCTAAACTGA
DRE1	AS-1	ABRE1
rgtcggtatgatat <u>g</u>	CTAATTGTGCGTCATCCCTTACG'	TCAGTGGAGCTAGCCCGCCACGTCTCG
	DRE1	GT-2
GTTCTTCTCGAAGCT	<u>A</u> AACTGATGTCGGTATGATAT <u>GC</u> '	<u>TA</u> TAATTACCGCCAATAATTAACCTA <u>G</u>
AS-	1	DRE1
CTAATTGTGCGTCAT	CCCTTACGTCAGTGGA <u>GCTA</u> AAC	TGATGTCGGTAGATAT <u>GCTA</u> ATACGGG
PCF	PC	F
CCCACCTACGGGCCC	\mathtt{ACCTCG} \mathtt{GCTA} $\mathtt{ATACGGGCCCACC}$	TACGGGCCCACCTCGGCTAAACTGATG
DRE1	AS-1	DRE1
rcggtatgatat <u>gct</u>	AATTGTGCGTCATCCCTTACGTC	AGTGGA <u>GCTA</u> AACTGATGTCGGTATGA
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DRE1	DRE1	AS-1
TAGCATATCATACCGACATCAGTTTAGC	CATATCATACCGACATCAG	TT <u>TAGC</u> TCCACTGACGTAA
	PCF1	ABRE1
GGGATGACGCACAATTAGCCGAGGTGGC	CCCGTAGGTGGGCCCGTA	T <u>TAGC</u> TTCGAGAAGAACCG
PCF	71	ABRE1
AGACGTGGCGGGCTAGCCGAGGTGGGCC	CGTAGGTGGGCCCGTATT	AGCTTCGAGAAGAACTGAG
DRE1		GT-2
ACGTGGCGGCTAGCATATCATACCGAC	CATCAGTTTAGCTAGGTTA	ATTATTGGCGGTAATTATA
$\overline{\text{GT-2}}$	ABRE1	
<u>GCTAGGTTAATTATTGGCGGTAATTATA</u>	AGCTTCGAGAAGAACCGAG	GACGTGGC

A24	1	PHP	7	1	1	=	Λ.	١
AZ4	١	RUL	1	4	Τ	2	U.	,

278bp

ABRE1	ABRE1	GT-2
TAGCTTCGAGAAGACGTGGCGGG	CCGCCACGTCTCGGTTCTTCTCG	AAGCTATAATTACCGCCAA
	GT-2	GT-2
TAATTAACCTAGCTATAATTACC	CGCCAATAATTAACCTAGCTATAA	TTACCGCCAATAATTAACC
DRE1	DRE1	DRE1
TAGCTAAACTGATGTCGGTATGA	TAT <u>GCTA</u> AACTGATGTCGGTATG	ATATGCTAAACTGATGTCG

DRE1 ABRE1 GTATGATATGCTAAACTGATGTCGGTATGATATGCTAGCCCGCCACGTCTCGGTTCTTCTCGAAG PCF CTAATACGGGCCCACCTA

PCF		AS-1	
CGAGGTGGGCCCGTAGGTGGG	CCCGTATTAGCTCCACT	GACGTAAGGGATGACGCA(CAATTAGCT
GT-2	AS	-1	
AGGTTAATTATTGGCGGTAAT	TATAGCTCCACTGACGT:	AAGGGATGACGCACAATT	AGCATATCA
DRE1	AS-1	7	AS-1
TACCGACATCAGTT <u>TAGC</u> TCC	ACTGACGTAAGGGATGA	CGCACAAT <u>TAGC</u> TCCACT	GACGTAAGG
	PCF	AS-	1
GATGACGCACAAT <u>TAGC</u> CGAG	GTGGGCCCGTAGGTGGG	CCCGTATTCCACTGACGT	AAGGGATGA
	PCF	DRE1	
CGCACAAT <u>TAGC</u> CGAGGTGGG	CCCGAGGTGGGCCCGTA	TTAGCATATCATACCGAC	ATCAGTT <u>TA</u>
ABRE1			
GCTTCGAGAAGAACCGAGTCG	AG		

A44 (PHP14152)

198bp

DRE1

ABRE1

 $\frac{\text{TAAACTGATGTCGGTATGATAAT}_{\text{GCCAA}}\text{CCCGGCAACGTCCCGGTTCTTCTCGAA}_{\text{GCTA}}\text{TAATTA}}{\text{GT-2}} \\ \text{DRE1} \\ \text{As-1}$

 $\frac{\texttt{CCGCCAATAATTAACCTA} \texttt{GCTA} \texttt{AACTGATGTCGGTATGATAT} \texttt{GCTA} \texttt{ATTGTGCGTCATCCCTTAC}}{\texttt{As-1}} \\ \textbf{As-1}$

AS-1

GT-2

 ${\tt TTGTGCGTCATCCCTTACGTCAGTGGAGTAATTACCGCCAATAATTAACCTAGCTAAACTGATGT}$ DRE1 DRE1 ABRE1

CGGTATGATATGCTAAACTGATGTCGGTATGATATGCTAGCCCGCCACGTCTCGGTTCTTCTCGA PCF DRE1

AGCTAATACGGGCCCACCTACGGGCCCACCTCGGCTAAACTGATGTCGGTATGATATGCTAATAC ABRE1

GGGCCCACCTACGGGCCCACCTCGGCTAGCCCGCCACGTCTCGGTTCTTCTCGAAGCTAAACTGA DRE1 DRE1

TGTCGGTATGATATGCTAAACTGATGTCGGTATGATATGCTA

A51 (PHP14154)

157bp

AS-1

ABRE1

 $\underline{\textbf{ATTATTGGCGGTAATTA}}\underline{\textbf{TAGC}}\underline{\textbf{TCCACTGACGTAAG}}\underline{\textbf{AGC}}\underline{\textbf{TTCGAGAAGAACCGAGACGTGGCGGGC}}\\ \underline{\textbf{DRE1}}$

TAGCATATCATACCGACATCAGTTTAG